



skin conductance procedure

Materials

computer, RV-5 sensor, 2 velcro strips, white box (1-330 C2), USB adapter

Hook-up

velcro strips connect to the end of the RV-5 sensor

RV-5 sensor connects to C port of white box


White box connects to serial port located on the back of the computer

sensors connect to the pads of the middle two fingers of the non-dominant hand

Clean fingers and sensors with alcohol before attaching sensors

Ask participant not to move/talk throughout procedures

Procedure

1. Boot up computer and select USE3 icon from the desktop (note – it's **SLOW**)
2. select <run session>
3. Choose the option “**C2 DUAL HRV SC TEMP**” (3rd from the bottom)
4. <start>
5. green bars in SR C mean you have a good connection
6. Top menu bar: select <breathing>. This will take you to the breathing screen.
6. Top menu bar: hit the down arrow button to the right of “**FILL HR + TEMP + SC**”
9. Select “**SCR + SC**”
10. top half of screen: Click in the white box to select SCR-C
11. Click on “show/hide signals” (left menu bar). 
12. Deselect SRC-D then close that window
13. bottom half of screen: click on the white box to select SC-C

14. click on “show/hide signals”



15. Deselect SC-D then close that window

16. optional: speed up graph by clicking on the 7th button down from the top on the left hand menu (keep clicking to reach desired speed – make the SCR & SC graph speeds the same)



17. Wait 3 minutes to allow the participant to habituate to the equipment

18. Hit record... red circle on the bottom menu...



From this point on, your procedures will depend on what you're testing and how... if you wish to “mark” a specific part of the GSR record (i.e. when something important happens) click on the event marker (green downward pointing arrow on the bottom menu)... you will have a second or two to label the marker (i.e. give it a very short title)

19. to stop recording - press red circle again

20. Save data! Click on first button from the left on bottom menu bar 

21. Select new client

22. Under “first name” put your initials followed by the participant number (e.g. LWpart1, LWpart2, LWpart 3 etc..). Do NOT save over someone else's file!

23. check the “saved signals” box... make sure only SC-C & SR-C are selected

24. <save to data base>

At this point you can disconnect participant

24. <export >





25. check “exported signals”... only SC-C and SR-C should be there

Verify other settings: export type = excel
update = 2 seconds
output = average only

26. hit <ok>

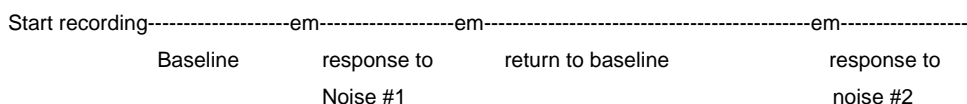
30. you are now in excel... wait! When asked if you want to save, "CANCEL"
31. Save excel file: there is a file on the desktop – "B and B spring 2012". You can create a subfolder under there.

Viewing a graph of the data

1. In the USE3 program, select <manage data> and then hi-light the session you want to look at.
2. Select <view> followed by <temp + SC report>
3. From the left menu, click on  or  until graph "looks right"
4. If your data line is "off the page", click on  or  Until the line is centered on the page

Analyzing your data with Excel

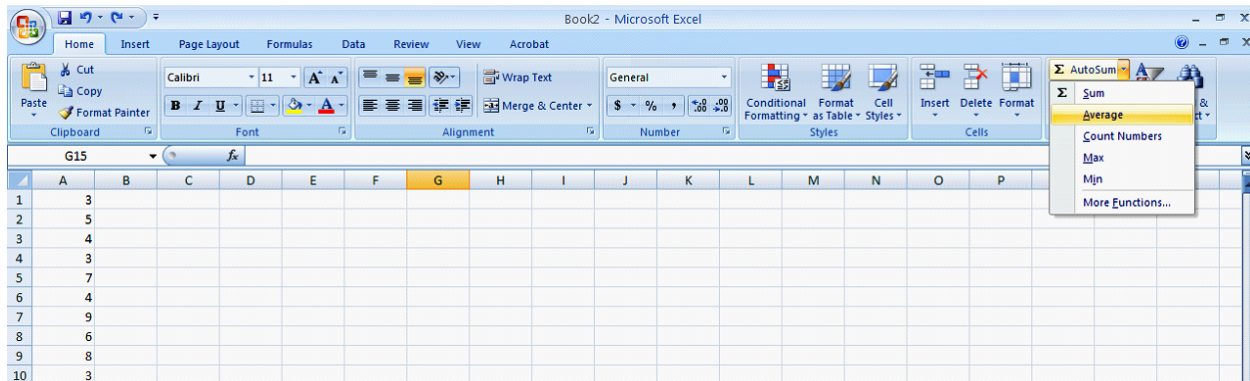
You can use Excel to get means for each "session" for each participant. For example, say you are testing the effect of two different noises on a person. Your recording design might look like this: (note EM means this is where you hit the event marker)



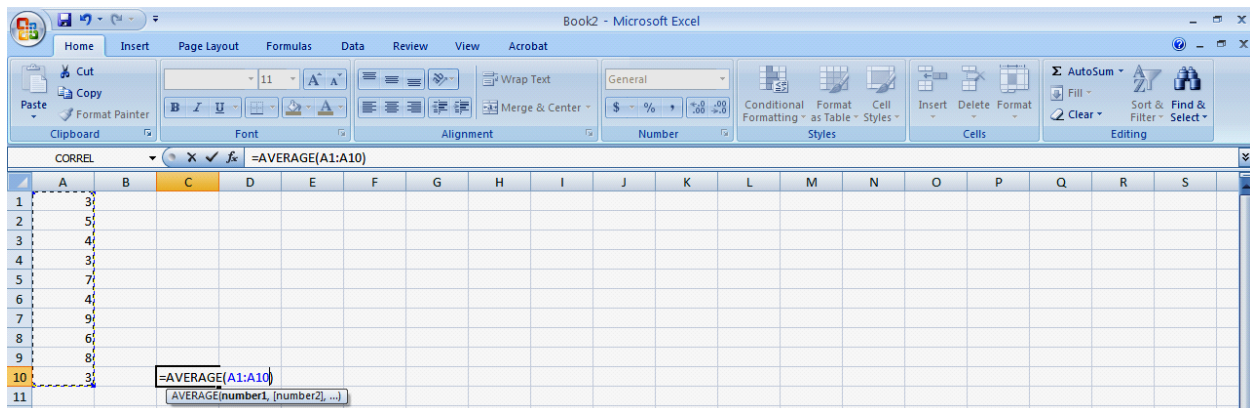
For each participant, you would want to know their mean GSR for the last 1 min of their baseline, their mean GSR in response to noise 1 (say the first 5 sec after it's presented*), their mean GSR for the last 1 min of the second baseline, and their mean GSR in response to noise 2 (the first 5 sec after it's presented*).

* Let's say that the marker for the 1st noise is at time 435. You would take the average of 437, 438, 439, 440 and 441. Do not include the readings at 435 and 436... it takes a sec for your body to react!

To get these means in excel, select “average” as shown below:



Then use your mouse to hi-light the data you want to calculate the mean for, as shown below:



Hit enter, et voila! Don't forget to write down this mean!